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What's New in Minitab 20.1



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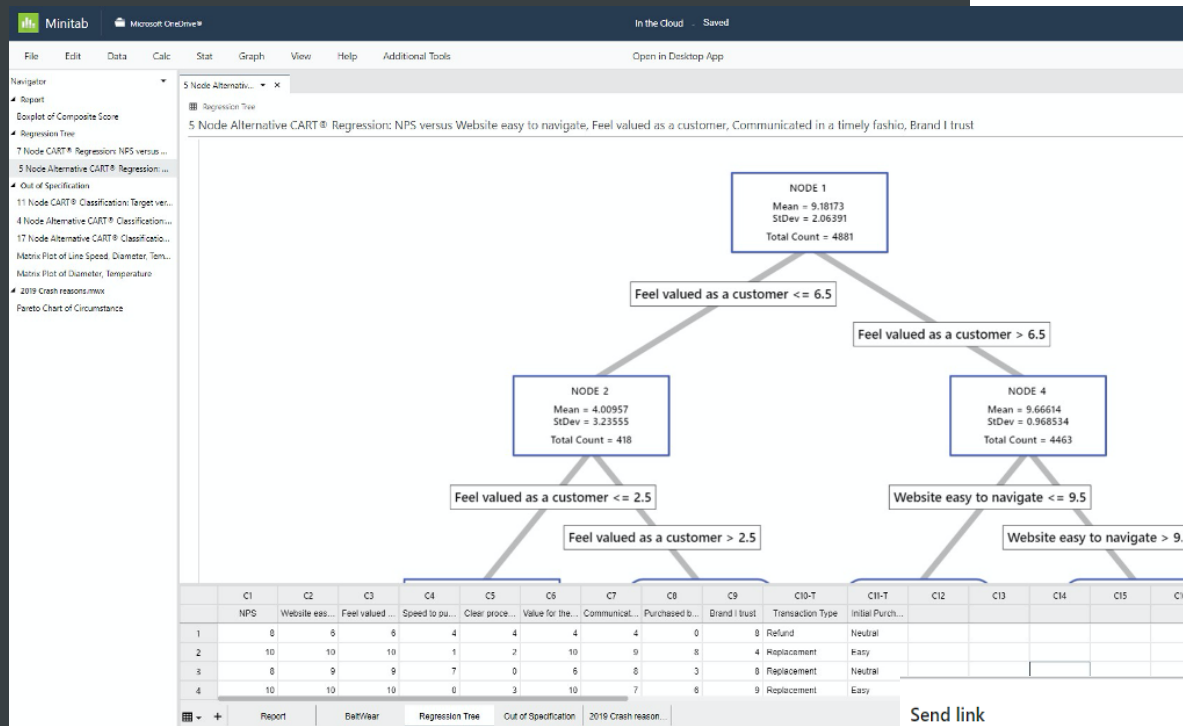
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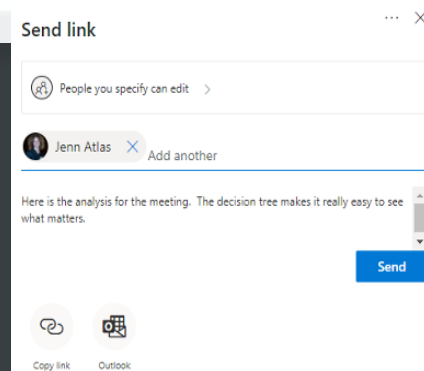
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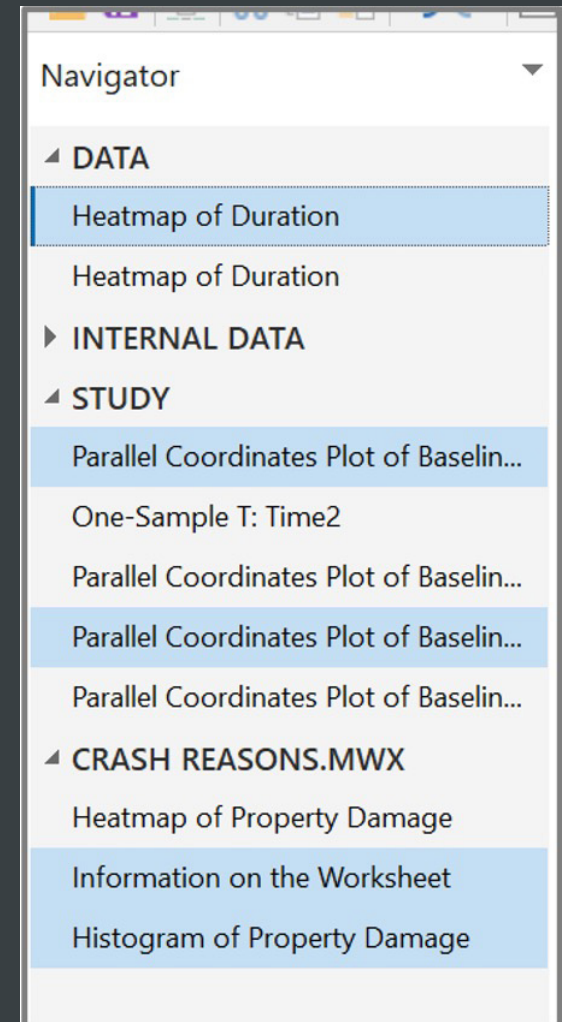
Interface Improvement

Multi-Select in the Navigator

Improvement: Ability to select multiple items from the Navigator that was introduced in Minitab 19.1.

User Benefit: Selecting a range of output makes it easier for users who need to remove or send output from the Navigator.

Summary: One of the top feedback items from users, this improvement makes sending or removing multiple items from the navigator much easier.



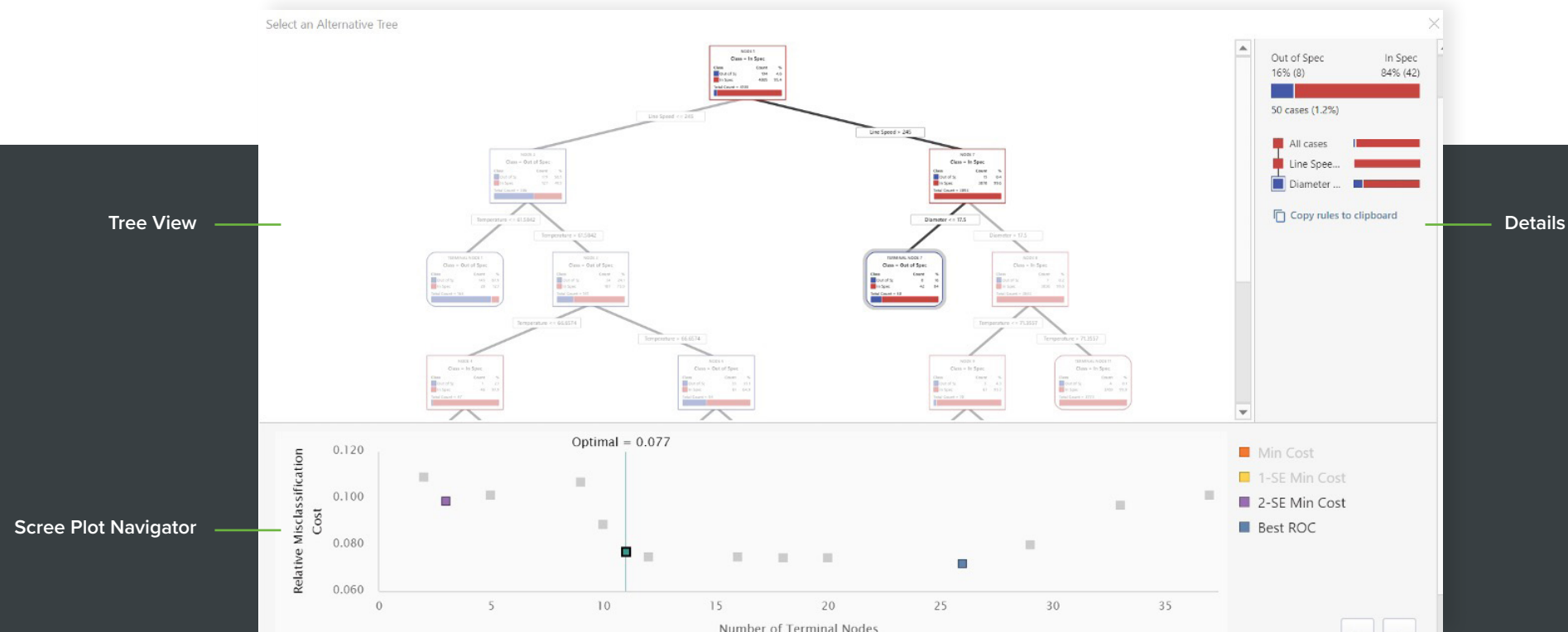
Improved Model Selection for Classification and Regression Trees

Improvement: When evaluating alternate models, users now have an all-in-one view of the decision tree, scree plot and node details.

User Benefit: Users can see the decision tree, model and node details in a single view, making alternative model selection easier than ever.

Select an Alternative Tree...

Summary: When users choose to view an alternative tree, a single view provides them with detailed information for all possible models.



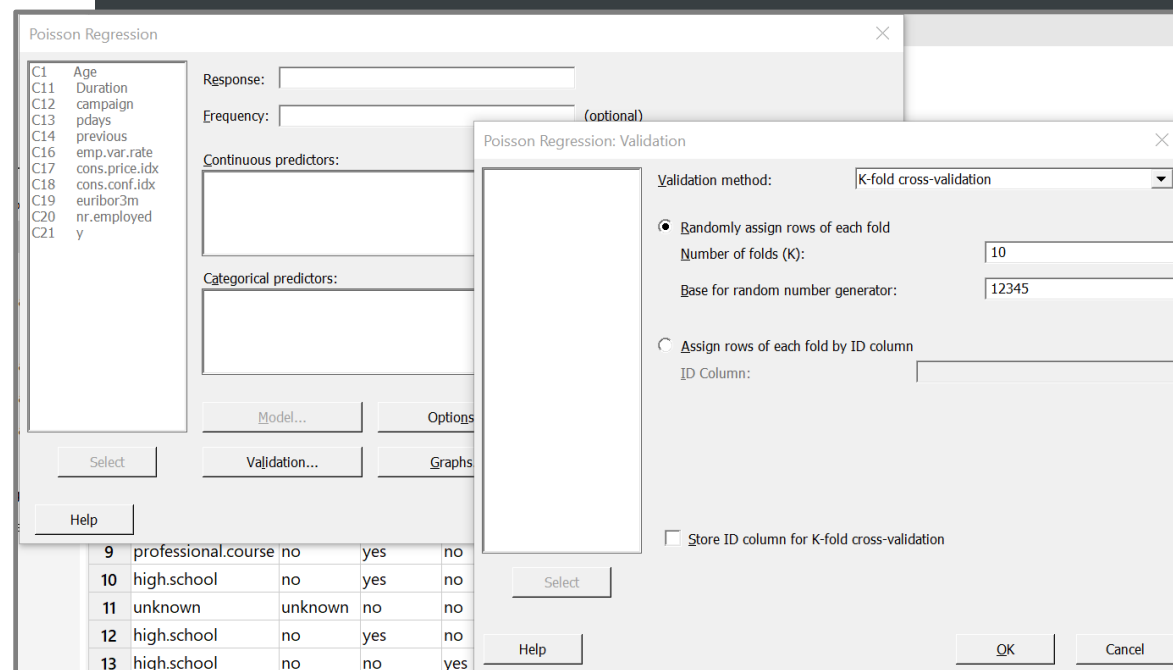
Model Validation in Binary Logistic Regression and Poisson Regression

Variability Chart

Improvement: Model validation is now available in Binary Logistic and Poisson Regression.

User Benefit: Validation is the process of evaluating a trained model on a test data set. This feature makes it easier for users to create useful models.

Summary: Validation prevents model overfitting, which is an important aspect in machine learning. This feature is now available in the Predictive Analytics menu and within Stat-Regression, Stat-Binary Logistic Regression and Stat-Poisson Regression



Visualizations

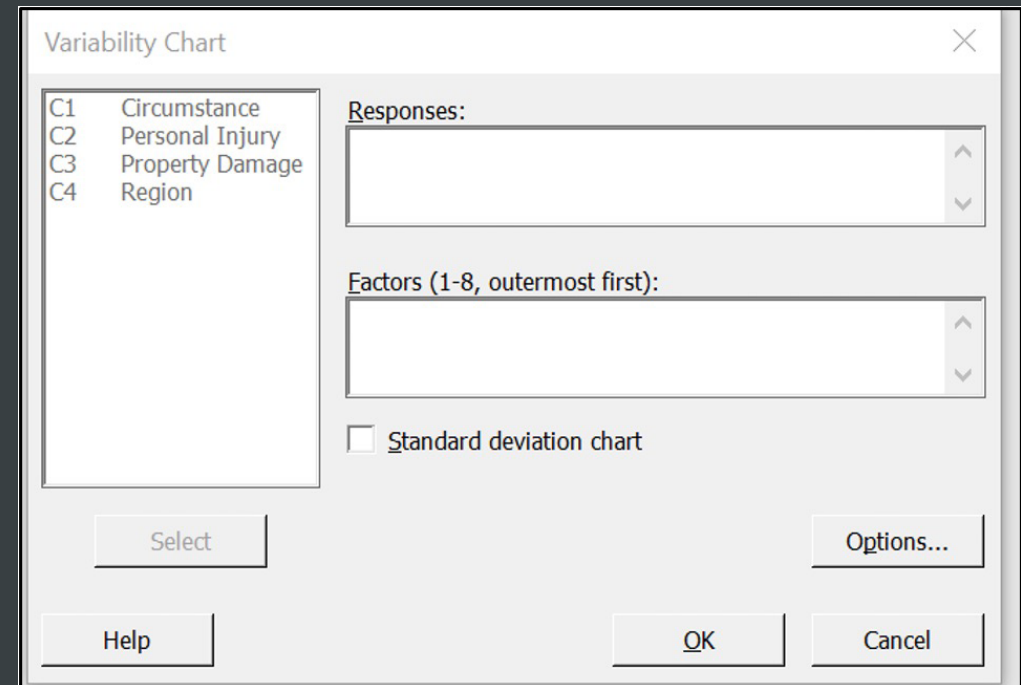
Variability Chart

Improvement: Two improvements were added to the chart that was introduced in Minitab 19.2:

1. The ability to specify multiple response variables for a given set of factors – this results in multiple graphs, one for each response.
2. The ability to brush individual observations.

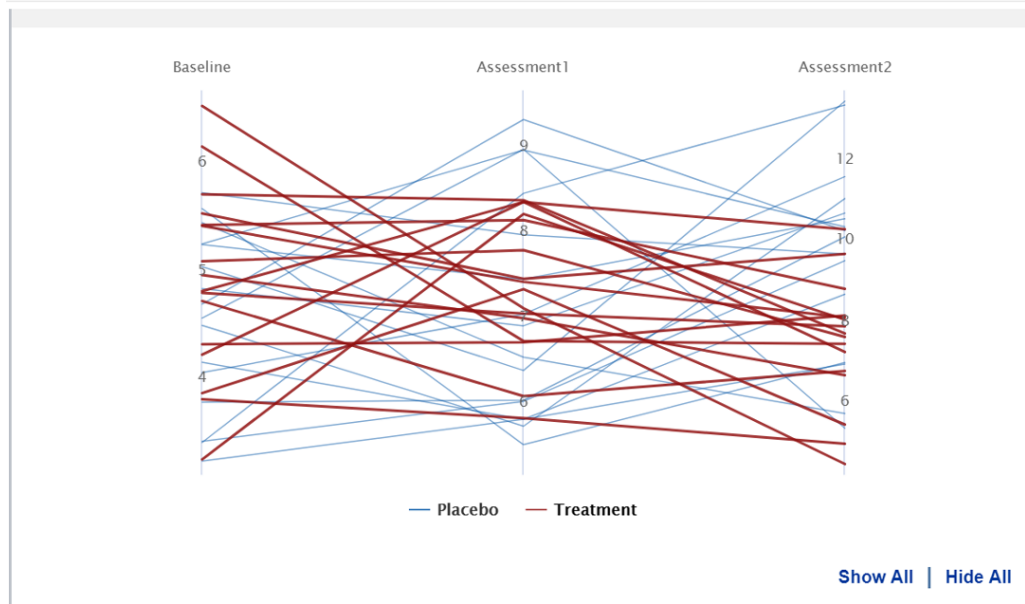
User Benefit: It is easy to create multiple variability charts with a single click. Also, exploring data is easier with the added ability to brush individual observations.

Summary: The Variability chart dialog can now support multiple responses, and brushing points is available when interacting with the graph.



STUDY

Parallel Coordinates Plot of Baseline, Assessment1, Assessment2



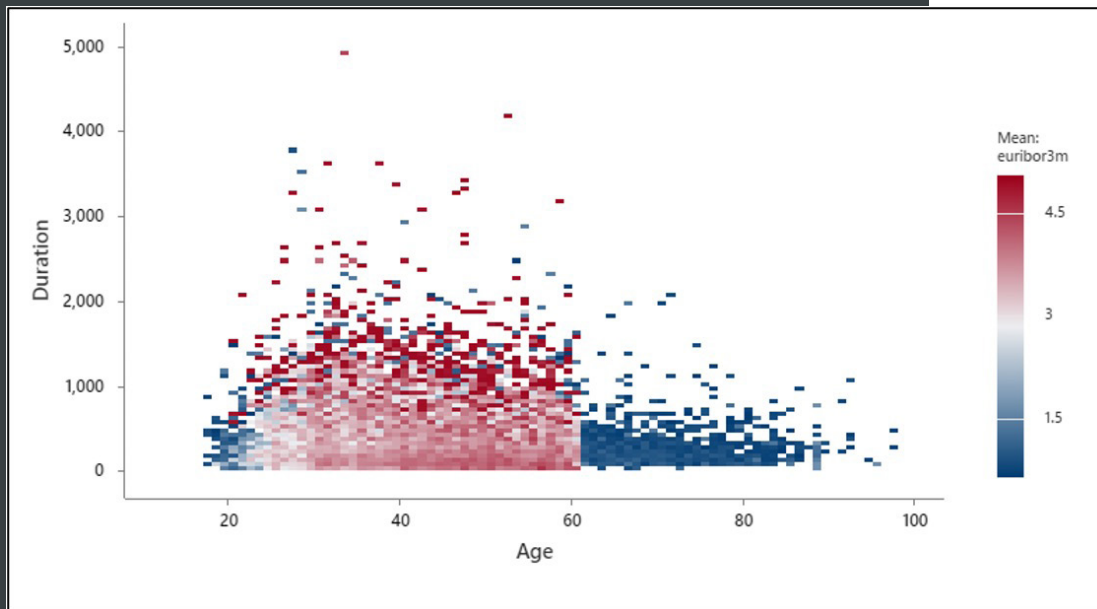
New Visualizations

Parallel Coordinates Plot

Addition: A parallel coordinates plot is a graph that displays multivariate numerical data, making it easy to visualize multiple dimensions.

User Benefit: Parallel plots represent high dimensional data as a two-dimensional visualization. Data is represented in the form of a line making it easy to visualize trends.

Summary: The parallel coordinates plot is an efficient way to visualize multidimensional and multivariate data.



New Visualizations

Binned Scatterplot

Addition: A binned scatterplot is a visual to display the relationship between two continuous variables when the dataset contains many observations. The gradient can be defined by observation frequency or by the mean of another variable.

User Benefit: Using a gradient to differentiate the density of data on a scatterplot makes it easier to communicate information to users. Users can also define the gradient as an average of another variable, providing additional flexibility for the visualization.

Gradient defined by:

☒ Frequency of binned data

☐ Mean of variable:

Summary: Binned scatterplots create meaningful graphics when displaying information for large data sets.

New Visualizations

Heat Map

Improvement: A heat map is a visual to display the impact of multiple categorical variables on a metric. The multiple categorical variables are displayed in a table layout with a gradient to display a function of a metric (e.g., percent defects, average customer satisfaction rating).

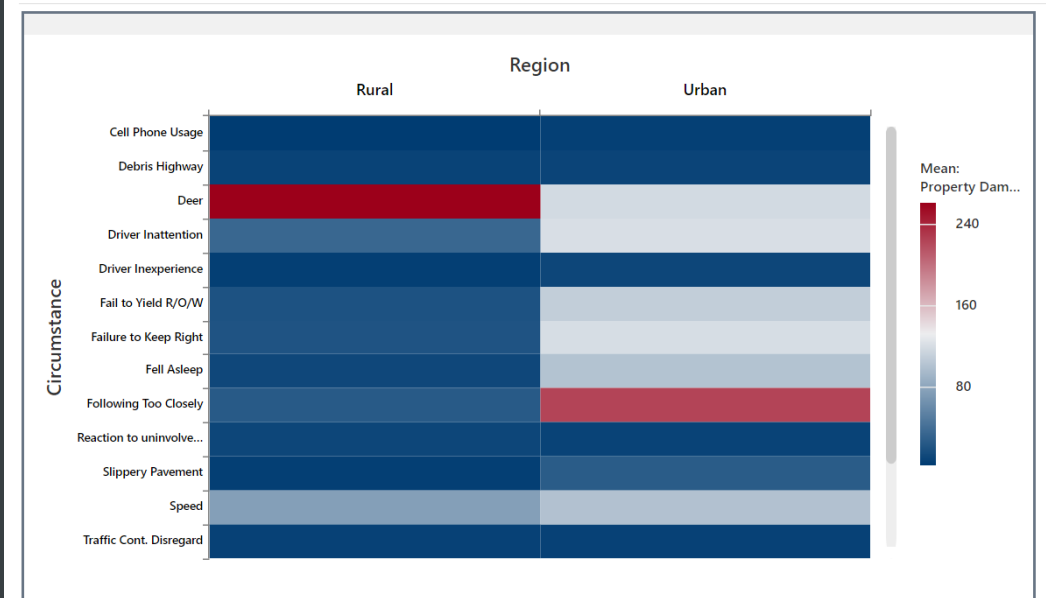
User Benefit: Heat maps identify areas of interest. They can quickly uncover scenarios that lead to a high or low values.

Summary:

Heatmaps are located in the Graph menu, between the bar and pie Charts. When you have a large number of factor levels, they may be easier than a bar chart to communicate areas that are different.

CRASH REASONS.MWX

Heatmap of Property Damage



Update

Report

Addition: A Report within a Minitab project.

User Benefit: Create and view reports directly within your Minitab Project file, making it easy to organize results. Reports are customizable and support the aggregation and curation of live-linked Minitab tables and graphs. Users can also add annotations to a Report.

Summary: Reports can be easily created within Minitab projects and are easily discovered in the Navigator. With a single click, users can send to Microsoft Word, Microsoft PowerPoint, Companion by Minitab or Minitab Workspace.

